

## MILKING AND APPLICATOR TEAT CUP, SYSTEM, AND METHOD

### ABSTRACT

A milking and applicator teat cup is configured to receive an animal  
5 teat within a liner located in a shell. At the openings of the liner and shell  
where the teat is received, there is an applicator configured to dispense  
disinfectant, conditioning, and/or cleaning solution to the animal teat.  
The applicator is designed to discharge the solution horizontally across the  
openings of the liner and the shell. Such a teat cup can be integrated into  
10 a milking system having a valve manifold coupled to a number of teat  
cups and controlling flow of milk from the number of teat cups and flow  
of fluid to the applicators, and a controller including logic configured to  
provide control signals to the valve manifold. The controller signals the  
valve manifold to pre-charge a hose or line delivering fluid to the  
15 applicator and signals the valve manifold for the end of milking and begin  
delivery of the fluid from the applicator.